

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6561	(type with service with (document or page or content or web))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 07:06
L2	499	((judg\$3 or determin\$3) with type with service with (document or page or content or web))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 07:09
L3	6382	((judg\$3 or determin\$3) with link\$3 with (document or page or content or web))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 07:09
L4	316	((judg\$3 or determin\$3) with link\$3 with type with (document or page or content or web))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:09
L5	25	2 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 07:10
L6	6	5 and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 07:43
L7	11	1 and 4 and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 07:19
L8	56	((judg\$3 or determin\$3) with link\$3 with type with (relat\$3 or relevance) with (document or page or content or web))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 07:42

## EAST Search History

L9	17	8 and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:09
L10	121	( link\$3 near type near (document or page or content or web))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:08
L11	12	10 and 3 and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 07:50
L12	14	10 and 10 and (link\$3 with image) and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 07:54
L13	62	10 and 10 and (link\$3 near type) and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 07:55
L14	11	10 and 10 and (link\$3 near url) and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 07:56
L15	7	10 and 10 and non-text and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:02
L16	5	((calculat\$3 or measur\$3 or comput\$3) with popular\$3 with (degree or rank\$3 or weight\$3 or scor\$3) with (document or page or content)) and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:10

## EAST Search History

L17	17770	((calculat\$3 or measur\$3 or comput\$3) with (degree or rank\$3 or weight\$3 or scor\$3) with (document or page or content)) and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:08
L18	0	17 and 10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:09
L19	24	17 and 1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:09
L20	24	19 and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:14
L21	3	20 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:09
L22	113260	(weight\$3 or scor\$3 or degree or rank\$3) with link\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:11
L23	1275	22 and 17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:10
L24	5449	(weight\$3 or scor\$3 or degree or rank\$3) with link\$3 with (document or page or content)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:11

## EAST Search History

L25	468	23 and 24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:11
L26	75	(weight\$3 or scor\$3 or degree or rank\$3) near link\$3 near (document or page or content)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 08:11
L27	15	25 and 26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:11
L28	0	(popular4 with link\$3 with (degree or rank\$3 or scor\$3 or weight\$3) with (document or content or page))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:12
L29	0	(popular4 with link\$3 with (degree or rank\$3 or scor\$3 or weight\$3) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:12
L30	199	(popular\$4 with link\$3 with (degree or rank\$3 or scor\$3 or weight\$3) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:28
L31	87	(popular\$4 with link\$3 with (degree or rank\$3 or scor\$3 or weight\$3) with (document or content or page))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:13
L32	0	31 and 10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:13

## EAST Search History

L33	1	31 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:14
L34	63	31 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:14
L35	9	34 and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:26
L36	3658	(link\$3 with (image or banner or animation or sound or voice or video or audio) with (content or document or page)) and @ad<"20011012"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:27
L37	0	31 and 36	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:28
L38	20	31 and (707/3).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:29
L39	1	(popular\$3 with transition with (degree or weight or rank\$3 or scor\$3) with (document or content or page)) and (707/3).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:30
L40	2	(popular\$3 with transition with (degree or weight or rank\$3 or scor\$3) with (document or content or page))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/06 09:30

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...

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### [Linking Matters - Link building and online public relations » Blog ...](#)

But, there are other important benefits to **link popularity** that rarely get ... or newsletters carry a **link** to your site, they pass on a **degree** of status. ...

[www.linkmatters.com/2004/](http://www.linkmatters.com/2004/)

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[findarticles.com/p/articles/mi\\_m0902/is\\_5\\_31/ai\\_109082158](http://findarticles.com/p/articles/mi_m0902/is_5_31/ai_109082158) - 33k - [Cached](#) - [Similar pages](#)

## [WWW2004 Community Coverage, last updated at 2004-05-19 23:44](#)

pshab: **relationship** between visit **popularity** and **popularity**? .... **links** per post, topic, length, placement of **links**, **relations** between postings and **links** ...

[www2004.xmlhack.com/2004/05/19/2004-05-19.html](http://www2004.xmlhack.com/2004/05/19/2004-05-19.html) - 36k - [Cached](#) - [Similar pages](#)

## [\[PPT\] NetWorkBench: what physicists need](#)

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number of incoming **links** of the page (**link popularity** or in-degree) ... Distribution of clicks on the hits of a hit list;; **Relation** between the rank of a ...

[vw.indiana.edu/talks-spring06/santo.ppt](http://vw.indiana.edu/talks-spring06/santo.ppt) - [Similar pages](#)

## [Link Popularity-Quick Explanation of Page Rank and Linking Strategies](#)

**Link popularity** is the prevalent criteria. What this means is that a web site can be ranked by the **degree** to which it is linked to by other sites. ...

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Instead, focus on a neighborhood **link relation** in **link space**, ... Also makes the assumption that page **popularity** is correlated with **degree**, but that a page ...

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Relevance scale



## 1 [The relational model for database management: version 2](#)

E. F. Codd  
January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: [pdf\(28.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

### From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

## 2 [Semantic web and web 2.0: Analysis of topological characteristics of huge online social networking services](#)

Yong-Yeol Ahn, Seungyeop Han, Haewoon Kwak, Sue Moon, Hawoong Jeong  
May 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07**

Publisher: ACM Press

Full text available: [pdf\(885.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Social networking services are a fast-growing business in the Internet. However, it is unknown if online relationships and their growth patterns are the same as in real-life social networks. In this paper, we compare the structures of three online social networking services: Cyworld, MySpace, and orkut, each with more than 10 million users, respectively. We have access to complete data of Cyworld's *ilchon* (friend) relationships and analyze its degree distribution, clustering property, ...

**Keywords:** sampling, social network

## 3 [Selected IR-related dissertation abstracts](#)

Susanne M. Humphrey  
September 1989 **ACM SIGIR Forum**, Volume 24 Issue 1-2

Publisher: ACM Press

Full text available: Additional Information:



 pdf(3.70 MB)[full citation](#)**4 Aspect mining: Efficiently mining crosscutting concerns through random walks** Charles Zhang, Hans-Arno Jacobsen March 2007 **Proceedings of the 6th international conference on Aspect-oriented software development AOSD '07****Publisher:** ACM PressFull text available:  pdf(480.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Inspired by our past manual aspect mining experiences, this paper describes a random walk model to approximate how crosscutting concerns can be discovered in the absence of domain knowledge of the investigated application. Random walks are performed on the coupling graphs extracted from the program sources. The ideas underlying the popular page-rank algorithm are adapted and extended to generate ranks reflecting the degrees of "popularity" and "significance" for each of the program elements on t ...

**Keywords:** aspect discovery, aspect mining, crosscutting concern discovery**5 Essays in computing science**

C. A. R. Hoare

January 1989 Book

**Publisher:** Prentice-Hall, Inc.Full text available:  pdf(20.91 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [review](#)

Charles Antony Richard Hoare is one of the most productive and prolific computer scientists. This volume contains a selection of his published papers. There is a need, as in a Shakespearian Chorus, to offer some apology for what the book manifestly fails to achieve. It is not a complete 'collected works'. Selection between papers of this quality is not easy and, given the book's already considerable size, some difficult decisions as to what to omit have had to be made. Pity the editor weighin ...

**6 Link analysis: Link fusion: a unified link analysis framework for multi-type interrelated data objects** Wensi Xi, Benyu Zhang, Zheng Chen, Yizhou Lu, Shuicheng Yan, Wei-Ying Ma, Edward Allan FoxMay 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04****Publisher:** ACM PressFull text available:  pdf(510.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web link analysis has proven to be a significant enhancement for quality based web search. Most existing links can be classified into two categories: intra-type links (e.g., web hyperlinks), which represent the relationship of data objects within a homogeneous data type (web pages), and inter-type links (e.g., user browsing log) which represent the relationship of data objects across different data types (users and web pages). Unfortunately, most link analysis research only considers one type of ...

**Keywords:** data fusion, information retrieval, link analysis algorithms, link fusion**7 Process modeling in Web applications** Marco Brambilla, Stefano Ceri, Piero Fraternali, Ioana Manolescu October 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 15 Issue 4

**Publisher:** ACM PressFull text available:  pdf(1.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While Web applications evolve towards ubiquitous, enterprise-wide or multienterprise information systems, they face new requirements, such as the capability of managing complex processes spanning multiple users and organizations, by interconnecting software provided by different organizations. Significant efforts are currently being invested in application integration, to support the composition of business processes of different companies, so as to create complex, multiparty business scenarios. ...

**Keywords:** Web applications, Web engineering, conceptual modeling, workflows

## 8 A taxonomy of Data Grids for distributed data sharing, management, and processing

 Srikumar Venugopal, Rajkumar Buyya, Kotagiri RamamohanaraoJune 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1**Publisher:** ACM PressFull text available:  pdf(1.70 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

**Keywords:** Grid computing, data-intensive applications, replica management, virtual organizations

## 9 The management of end-user computing: status and directions

 James C. Brancheau, Carol V. BrownDecember 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 4**Publisher:** ACM PressFull text available:  pdf(3.74 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The development of computing applications by the people who have direct need for them in their work has become commonplace. During the 1980s, development of applications by "end users" accelerated and became a key management and research concern. Known as "end-user computing," the phenomena and research associated with this trend cross a variety of disciplines. This article critically surveys the published literature on end-user computing (EUC) management according t ...

**Keywords:** desktop computing, end-user computing, information center, information technology management, personal computing

## 10 Mobile information access: A study of emerging search behavior on the mobile

 Internet

Karen Church, Barry Smyth, Paul Cotter, Keith Bradley

May 2007 **ACM Transactions on the Web (TWEB)**, Volume 1 Issue 1**Publisher:** ACM PressFull text available:  pdf(364.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is likely that mobile phones will soon come to rival more traditional devices as the

primary platform for information access. Consequently, it is important to understand the emerging information access behavior of mobile Internet (MI) users especially in relation to their use of mobile handsets for information browsing and query-based search. In this article, we describe the results of a recent analysis of the MI habits of more than 600,000 European MI users, with a particular emphasis on ...

**Keywords:** Mobile browsing, log analysis, mobile Internet, mobile search

## 11 A survey of Web metrics

 Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick  
December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(289.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

**Keywords:** Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

## 12 SALSA: the stochastic approach for link-structure analysis

 R. Lempel, S. Moran  
April 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(180.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Today, when searching for information on the WWW, one usually performs a query through a term-based search engine. These engines return, as the query's result, a list of Web pages whose contents matches the query. For broad-topic queries, such searches often result in a huge set of retrieved documents, many of which are irrelevant to the user. However, much information is contained in the link-structure of the WWW. Information such as which pages are linked to others can be used to augment searc ...

**Keywords:** Link-structure analysis, SALSA, TKC effect, hubs and authorities, random walks

## 13 Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fidelity virtual environments

 **Additional presentations from the 24th course are available on the citation page**

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez  
July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**

**Publisher:** ACM Press

Full text available:  pdf(5.07 MB)  Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The

principles of human perception guide important development of algorithms and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how human perception is exploited to achieve realism in high fidelity environments within the constraints of available finite computational resources. In this course w ...

**Keywords:** collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

14 Understanding internet topology: principles, models, and validation 

David Alderson, Lun Li, Walter Willinger, John C. Doyle

December 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 6

**Publisher:** IEEE Press

Full text available:  pdf(1.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Building on a recent effort that combines a first-principles approach to modeling router-level connectivity with a more pragmatic use of statistics and graph theory, we show in this paper that for the Internet, an improved understanding of its physical infrastructure is possible by viewing the physical connectivity as an annotated graph that delivers raw connectivity and bandwidth to the upper layers in the TCP/IP protocol stack, subject to practical constraints (e.g., router technology) and eco ...

**Keywords:** degree-based generators, heuristically optimal topology, network design, network topology, router configuration, topology metrics

15 Report of the national workshop on internet voting: issues and research agenda 

C. D. Mote

May 2002 **Proceedings of the 2002 annual national conference on Digital government research dg.o '02**

**Publisher:** Digital Government Research Center

Full text available:  pdf(539.99 KB) Additional Information: [full citation](#)

16 Report of the national workshop on internet voting: issues and research agenda 

C. D. Mote

May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**

**Publisher:** Digital Government Research Center

Full text available:  pdf(539.99 KB) Additional Information: [full citation](#), [abstract](#)

As use of the Internet in commerce, education and personal communication has become common, the question of Internet voting in local and national elections naturally arises. In addition to adding convenience and precision, some believe that Internet voting may reverse the historical and downward trend of voter turnout in the United States. For these reasons President Clinton issued a memorandum in December 1999 requesting that the National Science Foundation examine the feasibility of online (In ...

17 Compiler construction: an advanced course 

F. L. Bauer, F. L. De Remer, M. Griffiths, U. Hill, J. J. Horning, C. H. A. Koster, W. M.

McKeeman, P. C. Poole, W. M. Waite, G. Goos, J. Hartmanis

January 1974 Book

**Publisher:** Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

The Advanced Course took place from March 4 to 15, 1974 and was organized by the

Mathematical Institute of the Technical University of Munich and the Leibniz Computing Center of the Bavarian Academy of Sciences, in co-operation with the European Communities, sponsored by the Ministry for Research and Technology of the Federal Republic of Germany and by the European Research Office, London.

**18 Types and persistence in database programming languages** 

 Malcolm P. Atkinson, O. Peter Buneman  
June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(7.91 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

**19 Authoritative sources in a hyperlinked environment** 

 Jon M. Kleinberg  
September 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 5

**Publisher:** ACM Press

Full text available:  pdf(195.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The network structure of a hyperlinked environment can be a rich source of information about the content of the environment, provided we have effective means for understanding it. We develop a set of algorithmic tools for extracting information from the link structures of such environments, and report on experiments that demonstrate their effectiveness in a variety of context on the World Wide Web. The central issue we address within our framework is the distillation of broad search topics, ...

**Keywords:** World Wide Web, graph algorithms, hypertext structure, link analysis

**20 Classics in software engineering** 

January 1979 Divisible Book

**Publisher:** Yourdon Press

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8 shows an example of the data structure of a **service type** table; ..... [0065] Then, the **popularity degree** calculation unit 102 extracts **link** relation ...  
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## 1 Compiler construction: an advanced course

F. L. Bauer, F. L. De Remer, M. Griffiths, U. Hill, J. J. Horning, C. H. A. Koster, W. M. McKeeman, P. C. Poole, W. M. Waite, G. Goos, J. Hartmanis  
January 1974 Book

**Publisher:** Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

The Advanced Course took place from March 4 to 15, 1974 and was organized by the Mathematical Institute of the Technical University of Munich and the Leibniz Computing Center of the Bavarian Academy of Sciences, in co-operation with the European Communities, sponsored by the Ministry for Research and Technology of the Federal Republic of Germany and by the European Research Office, London.

## 2 A survey of Web metrics

Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick  
December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(289.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

**Keywords:** Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

## 3 Designing for accessibility: Personalizable edge services for web accessibility

Gennaro Iaccarino, Delfina Malandrino, Vittorio Scarano  
May 2006 **Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility?**  
**W4A**

**Publisher:** ACM Press

Full text available:  pdf(601.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web Content Accessibility guidelines by W3C [29] provide several suggestions for Web designers on how to author Web pages in order to make them accessible to everyone. In this context, we are proposing the use of edge services as an efficient and general solution to promote accessibility and breaking down the digital barriers that inhibit users with disabilities to actively participate to any aspect of our society. To this aim, we present in this paper PAN: Personalizable Accessible Navigation, t ...

**Keywords:** disability, programmable edge servers, universal access, web accessibility

4 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)

September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

**Publisher:** ACM Press

Full text available:  pdf(1.98 MB) Additional Information: [full citation](#), [index terms](#)



5 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker  
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**



**Publisher:** ACM Press

Full text available:  pdf(17.07 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...



6 Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(5.28 MB) Additional Information: [full citation](#)

7 Attacks and cryptanalysis: Puppetnets: misusing web browsers as a distributed attack infrastructure

V. T. Lam, S. Antonatos, P. Akritidis, K. G. Anagnostakis

October 2006 **Proceedings of the 13th ACM conference on Computer and communications security CCS '06**



**Publisher:** ACM Press

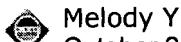
Full text available:  pdf(871.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most of the recent work on Web security focuses on preventing attacks that *directly* harm the browser's host machine and user. In this paper we attempt to quantify the threat of browsers being *indirectly* misused for attacking third parties. Specifically, we look at how the existing Web infrastructure (e.g., the languages, protocols, and security policies) can

be exploited by malicious Web sites to remotely instruct browsers to orchestrate actions including denial of service attacks, ...

**Keywords:** distributed attacks, malicious software, web security

**8 Evolution of web site design patterns**



Melody Y. Ivory, Rodrick Megraw

October 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 4

**Publisher:** ACM Press

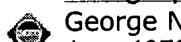
Full text available: pdf(7.07 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#),  
[review](#)

The Web enables broad dissemination of information and services; however, the ways in which sites are designed can either facilitate or impede users' benefit from these resources. We present a longitudinal study of web site design from 2000 to 2003. We analyze over 150 quantitative measures of interface aspects (e.g., amount of text on pages, numbers and types of links, consistency, accessibility, etc.) for 22,000 pages and over 1,500 sites that received ratings from Internet professionals. We e ...

**Keywords:** World Wide Web, accessibility, automated usability evaluation, design guidelines, empirical studies, usability, web site design

**9 Geographic Data Processing**



George Nagy, Sharad Wagle

June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2

**Publisher:** ACM Press

Full text available: pdf(4.20 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**10 Proceedings of the SIGNUM conference on the programming environment for development of numerical software**



March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

**Publisher:** ACM Press

Full text available: pdf(5.02 MB)

Additional Information: [full citation](#)

**11 Conversations with Clement Mok and Jakob Nielsen, and with Bill Buxton and Clifford Nass**



Richard I. Anderson

January 2000 **interactions**, Volume 7 Issue 1

**Publisher:** ACM Press

Full text available: pdf(986.68 KB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

html(148.66 KB)

**12 Report of the national workshop on internet voting: issues and research agenda**

C. D. Mote

May 2002 **Proceedings of the 2002 annual national conference on Digital government research dg.o '02**

**Publisher:** Digital Government Research Center

Full text available:  pdf(539.99 KB) Additional Information: [full citation](#)

13 Report of the national workshop on internet voting: issues and research agenda

C. D. Mote

May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**

Publisher: Digital Government Research Center

Full text available:  pdf(539.99 KB) Additional Information: [full citation](#), [abstract](#)

As use of the Internet in commerce, education and personal communication has become common, the question of Internet voting in local and national elections naturally arises. In addition to adding convenience and precision, some believe that Internet voting may reverse the historical and downward trend of voter turnout in the United States. For these reasons President Clinton issued a memorandum in December 1999 requesting that the National Science Foundation examine the feasibility of online (In ...)

14 The state of the art in locally distributed Web-server systems

 Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.41 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

**Keywords:** Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

15 In search of invariants for e-business workloads

 Daniel Menascé, Virgílio Almeida, Rudolf Riedi, Flávia Ribeiro, Rodrigo Fonseca, Wagner Meira

October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce EC '00**

Publisher: ACM Press

Full text available:  pdf(4.11 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** WWW, e-commerce, heavy-tailed distribution, performance modeling, workload characterization

16 EIU's ViewsWire: new wine in a new bottle

Peter Lovelock, Ali F. Farhoomand

December 2000 **Proceedings of the twenty first international conference on Information systems ICIS '00**

Publisher: Association for Information Systems

Full text available:  pdf(516.64 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

17 Service-oriented and mobile computing: From representations to computations: the evolution of web architectures

Justin R. Erenkrantz, Michael Gorlick, Girish Suryanarayana, Richard N. Taylor  
September 2007 **Proceedings of the the 6th joint meeting of the European software engineering conference and the ACM SIGSOFT symposium on The foundations of software engineering ESEC-FSE '07**

Publisher: ACM Press

Full text available:  pdf(416.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

REpresentational State Transfer (REST) guided the creation and expansion of the modern web. What began as an internet-scale distributed hypermedia system is now a vast sea of shared and interdependent services. However, despite the expressive power of REST, not all of its benefits are consistently realized by working systems. To resolve the dissonance between the promise of REST and the reality of fielded systems, we critically examine numerous web architectures. Our investigation yields a se ...

**Keywords:** mobile code, network continuations, representational state transfer, web services

18 Real-time rendering: Stylized rendering of 3D scanned real world environments

Hui Xu, Baoquan Chen  
June 2004 **Proceedings of the 3rd international symposium on Non-photorealistic animation and rendering NPAR '04**

Publisher: ACM Press

Full text available:  pdf(1.14 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an interactive non-photorealistic rendering (NPR) system that stylizes and renders outdoor scenes captured by 3D laser scanning. In order to deal with the large size, complexity and inherent incompleteness of data obtained from outdoor scans, our system represents outdoor scenes using points instead of traditional polygons. Algorithms are then developed to extract, stylize and render features from this point representation. In addition to conveying various NPR styles, our sys ...

**Keywords:** 3D scanning, interactive 3D graphics, multi-resolution, non-photorealistic rendering, point-based rendering

19 Issues essential to World Wide Web marketing

A. Maurice Stratton, Ka-Wing Wong  
April 1997 **ACM SIGICE Bulletin**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.55 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Technological society in the 21st century gives us a new meaning and a new challenge in our daily life. In marketing, the challenge comes in the use of technology to make business successful. With the Internet replacing many traditional communication mediums, marketing on the World Wide Web is going to be the biggest challenge to most marketers. This paper discusses the issues that are essential to marketing on the World Wide Web.

**Keywords:** World Wide Web, marketing

20 Defending against an Internet-based attack on the physical world

Simon Byers, Aviel D. Rubin, David Kormann

August 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 3

Publisher: ACM Press

Full text available:  pdf(863.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We discuss the dangers that scalable Internet functionality may present to the real world, focusing upon an attack that is simple, yet can have great impact, which we believe may occur quite soon. We offer and critique various solutions to this class of attack and hope to provide a warning to the Internet community of what is currently possible. The attack is, to some degree, a consequence of the availability of private information on the Web, and the increase in the amount of personal informati ...

**Keywords:** Internet threats, automated attacks, cybercrime

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